AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the abovereferenced application.

Listing of Claims:

1. (Currently amended) A DC motor, comprising:

a rotor unit which is rotatably arranged within the motor and [[has]] <u>includes</u> a cylindrical field magnet <u>having a single structure</u> fixed to holder means into which a rotating shaft is press-fitted at a center thereof, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof; and

a stator unit which is circumferentially arranged around said rotor unit and is comprised of a plurality of stator yokes so arranged as to oppose said field magnet with a small gap, each of said stator yokes being formed by circumferentially stacking a large number of thin plates each of which constitutes a salient pole, and a plurality of coil units, each being formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes;

wherein each of the S and N poles has a plurality of stages formed in an axial direction and shifted from each other in the circumferential direction of said field magnet with a predetermined shift amount.

2. (Original) A DC motor according to claim 1, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.

- 3. (Original) A DC motor according to claim 1, wherein a rotor position detection element is adjusted by 1/2 the shift amount of respective stages.
- 4. (Original) A DC motor according to claim 1, wherein the motor is an inner rotor type brushless DC motor.
- 5. (Original) A DC motor according to claim 1, wherein the DC motor is an outer rotor type brushless DC motor.
- 6. (Original) A DC motor according to claim 4, wherein the DC motor has three phases, eight poles and six stator units in which basic degree of a cogging torque thereof is 24.
- 7. (Original) A DC motor according to claim 5, wherein the DC motor has three phases, eight poles and six stator units in which basic degree of a cogging torque thereof is 24.

8. (Currently amended) A DC motor, comprising:

a rotor unit which is rotatably arranged within the motor and [[has]] <u>includes</u> a cylindrical field magnet <u>having a single structure</u> fixed to a holder to which a rotating shaft is coupled, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof; and

a stator unit which is circumferentially arranged around said rotor unit and includes a plurality of stator yokes so arranged as to oppose said field magnet, each of said stator yokes including a large number of circumferentially-stacked thin plates each of which constitutes a salient pole, and a plurality of coil units;

wherein each of the S and N poles has a plurality of stages formed in an axial direction and shifted from each other in the circumferential direction of said field magnet with a predetermined shift amount.

- 9. (Previously presented) The DC motor according to claim 8, wherein said rotating shaft is press-fitted at a center of said holder.
- 10. (Previously presented) The DC motor according to claim 8, wherein each of said coil units is formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes.
- 11. (Previously presented) The DC motor according to claim 8, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.

- 12. (Previously presented) The DC motor according to claim 8, wherein a rotor position detection element is adjusted by 1/2 the shift amount of respective stages.
- 13. (Previously presented) The DC motor according to claim 8, wherein the motor is an inner rotor type brushless DC motor.
- 14. (Previously presented) The DC motor according to claim 8, wherein the DC motor is an outer rotor type brushless DC motor.
- 15. (Previously presented) The DC motor according to claim 8, wherein the DC motor has three phases, eight poles and six stator units in which a basic degree of a cogging torque thereof is 24.

16. (New) A DC motor, comprising:

a rotor unit which is rotatably arranged within the motor and including a rotating shaft press-fitted to a sleeve, a single tubular field magnet and holders arranged at both ends of said field magnet, wherein said sleeve is secured on a portion of an inner periphery of said field magnet, said field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof, each of the S and N poles having a plurality of stages formed in an axial direction and shifted from each other in the circumferential direction of said cylindrical field magnet with a predetermined shift amount; and

a stator unit which is circumferentially arranged around said rotor unit and is comprised of a plurality of stator yokes so arranged as to oppose said cylindrical field magnet with a small gap, each of said stator yokes being formed by circumferentially stacking a large number of thin plates each of which constitutes a salient pole, and a plurality of coil units, each being formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes.

- 17. (New) The DC motor according to claim 16, wherein a spring is provided inside one of said holders.
- 18. (New) The DC motor according to claim 16, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.